

KINDLY AMEND THE ABOVE-IDENTIFIED APPLICATION AS FOLLOWS:

In The Title of the Invention: Change the title to:

-- Nucleic Acids Fixed or Immobilized to Non-Porous Solid Support, and
System, Array and Non-Porous Glass or Plastic Solid Support Comprising
Such Fixed or Immobilized Nucleic Acids -- .

In The Claims: Please enter the complete listing of all claims provided below.

Claims 1-2160 (Previously Canceled).

Claims 2161-3143 (Canceled).

Claim 3144. (New) A non-porous solid support comprising at least one single-stranded nucleic acid directly or indirectly fixed or immobilized thereto in hybridizable form, wherein when said nucleic acid is indirectly fixed or immobilized to said non-porous solid support, said indirect fixation or immobilization is not to a cell fixed *in situ* to said non-porous solid support.

Claim 3145. (New) A non-porous solid support comprising at least one double-stranded nucleic acid fixed or immobilized thereto, wherein at least one nucleic acid strand of said double-stranded nucleic acid comprises at least one non-radioactive chemical label which is quantifiable or detectable, wherein when said nucleic acid is indirectly fixed or immobilized to said non-porous solid support, said indirect fixation or immobilization is not to a cell fixed *in situ* to said non-porous solid support.

Claim 3146. (New) The non-porous solid support of claim 3144 or 3145, wherein said non-porous solid support comprises glass or plastic.

Claim 3147. (New) The non-porous solid support of claim 3144 or 3145, wherein said non-porous solid support comprises a plate, a well or wells, a microtiter well or microtiter wells, depressions, tubes, cuvettes, beads, or a set of said plates, wells, depressions, tubes, cuvettes or beads.

Claim 3148. (New) The non-porous solid support of claim 3144 or 3145, wherein said non-porous solid support comprises more than one surface.

Claim 3149. (New) The non-porous solid support of claim 3144 or 3145, comprising reactive sites or binding sites thereon, wherein said nucleic acid is fixed or immobilized to one of said reactive sites or binding sites.

Claim 3150. (New) The non-porous solid support of claim 3149, wherein said reactive sites or binding sites comprise one or more amines, hydroxyls or epoxides.

Claim 3151. (New) The non-porous solid support of claim 3144 or 3145, wherein said non-porous solid support has been treated with a surface treatment agent, a blocking agent, or both.

Claim 3152. (New) The non-porous solid support of claim 3151, wherein said surface treatment agent comprises an amine providing compound, an epoxy glue or solution, an acid solution, or ammonium acetate.

Claim 3153. (New) The non-porous solid support of claim 3151, wherein said blocking agent comprises Denhardt's solution.

Claim 3154. (New) The non-porous solid support of claim 3144 or 3145, wherein said direct or indirect fixation or immobilization to said non-porous solid support is covalent.

Claim 3155. (New) The non-porous solid support of claim 3144 or 3145, wherein said direct or indirect fixation or immobilization to said non-porous solid support is non-covalent.

Claim 3156. (New) The non-porous solid support of claim 3144, wherein said single-stranded nucleic acid is indirectly fixed or immobilized to said non-porous solid support by sandwich hybridization or by hybridization to a complementary nucleic acid strand.

Claim 3157. (New) The non-porous solid support of claim 3145, wherein one strand of said double-stranded nucleic acid is indirectly fixed or immobilized to said non-porous solid support by sandwich hybridization or by hybridization to a complementary nucleic acid strand.

Claim 3158. (New) The non-porous solid support of claim 3144, wherein said nucleic acid comprises DNA or RNA.

Claim 3159. (New) The non-porous solid support of claim 3145, wherein said nucleic acid comprises DNA, RNA or both.

Claim 3160. (New) The non-porous solid support of claim 3144, wherein said nucleic acid comprises a nucleic acid sequence complementary to a nucleic acid sequence of interest sought to be identified, quantified or sequenced.

Claim 3161. (New) The non-porous solid support of claim 3145, wherein one strand of said double-stranded nucleic acid comprises a nucleic acid sequence of interest sought to be identified, quantified or sequenced.

Claim 3162. (New) The non-porous solid support of claim 3144, wherein said single-stranded nucleic acid is unlabeled.

Claim 3163. (New) The non-porous solid support of claim 3144 or 3145, wherein said non-porous solid support is transparent or translucent.

Claim 3164. (New) The non-porous solid support of claim 3145, wherein said non-radioactive chemical label is quantifiable in or from a fluid or solution, said quantity being proportional to the amount or quantity of said label or labels.

Claim 3165. (New) The non-porous solid support of claim 3145, wherein said non-porous solid support is transparent or translucent, and said non-radioactive chemical label is quantifiable in or from a fluid or solution or in or through said non-porous solid support, said quantity being proportional to the amount or quantity of said label or labels.

Claim 3166. (New) The non-porous solid support of claim 3145, wherein said non-radioactive chemical label comprises a chromagen or a chromagenic compound, a colored dye compound, a fluorogen or a fluorescent compound, a chemiluminescent compound, a chelating compound, an enzyme or an enzymatic compound, a coenzyme, biotin, iminobiotin, a hapten or a ligand.

Claim 3167. (New) The non-porous solid support of claim 3145, wherein a non-radioactive signal from said non-radioactive chemical label is quantifiable or detectable by photometric techniques, spectrophotometric techniques, colorimetric techniques, fluorometric techniques or chemiluminescent techniques.

Claim 3168. (New) The non-porous solid support of claim 3144, comprising more than one single-stranded nucleic acid.

Claim 3169. (New) The non-porous solid support of claim 3145, comprising more than one double-stranded nucleic acid.

Claim 3170. (New) A set comprising the non-porous solid support of claim 3144.

Claim 3171. (New) A set comprising the non-porous solid support of claim 3145.

Claim 3172. (New) A system comprising a non-porous solid support and at least one single-stranded nucleic acid directly or indirectly fixed or immobilized thereto in hybridizable form, wherein when said nucleic acid is indirectly fixed or immobilized to said non-porous solid support, said indirect fixation or immobilization is not to a cell fixed *in situ* to said non-porous solid support.

Claim 3173. (New) A system comprising a non-porous solid support and at least one double-stranded nucleic acid fixed or immobilized thereto, wherein at least one nucleic acid strand of said double-stranded nucleic acid comprises at least one non-radioactive chemical label which is quantifiable or detectable, and wherein when said nucleic acid is indirectly fixed or immobilized to said non-porous solid support, said indirect fixation or immobilization is not to a cell fixed *in situ* to said non-porous solid support.

Claim 3174. (New) The system of claim 3172 or 3173, wherein said non-porous solid support comprises glass or plastic.

Claim 3175. (New) The system of claim 3172 or 3173, wherein said non-porous solid support comprises a plate, a well or wells, a microtiter well or microtiter wells, depressions, tubes, cuvettes, beads, or a set of said plates, wells, depressions, tubes, cuvettes or beads.

Claim 3176. (New) The system of claim 3172 or 3173, wherein said non-porous solid support comprises more than one surface.

Claim 3177. (New) The system of claim 3172 or 3173, wherein said non-porous solid support comprises reactive sites or binding sites thereon, wherein said nucleic acid is fixed or immobilized to one of said reactive sites or binding sites.

Claim 3178. (New) The system of claim 3177, wherein said reactive sites or binding sites comprise one or more amines, hydroxyls or epoxides.

Claim 3179. (New) The system of claim 3172 or 3173, wherein said non-porous solid support has been treated with a surface treatment agent, a blocking agent, or both.

Claim 3180. (New) The system of claim 3179, wherein said surface treatment agent comprises an amine providing compound, an epoxy glue or solution, an acid solution or ammonium acetate.

Claim 3181. (New) The system of claim 3179, wherein said blocking agent comprises Denhardt's solution.

Claim 3182. (New) The system of claim 3172 or 3173, wherein said direct or indirect fixation or immobilization to said non-porous solid support is covalent.

Claim 3183. (New) The system of claim 3172 or 3173, wherein said direct or indirect fixation or immobilization to said non-porous solid support is non-covalent.

Claim 3184. (New) The system of claim 3172, wherein said single-stranded nucleic acid is indirectly fixed or immobilized to said non-porous solid support by sandwich hybridization or by hybridization to a complementary nucleic acid strand.

Claim 3185. (New) The system of claim 3173, wherein said one strand of said double-stranded nucleic acid is indirectly fixed or immobilized to said non-porous solid support by sandwich hybridization or by hybridization to a complementary nucleic acid strand.

Claim 3186. (New) The system of claim 3172, wherein said nucleic acid comprises DNA or RNA.

Claim 3187. (New) The system of claim 3173, wherein said nucleic acid comprises DNA, RNA, or both.

Claim 3188. (New) The system of claim 3172, wherein said nucleic acid comprises a nucleic acid sequence complementary to a nucleic acid sequence of interest sought to be identified, quantified or sequenced.

Claim 3189. (New) The system of claim 3173, wherein one strand of said double-stranded nucleic acid comprises a nucleic acid sequence of interest sought to be identified, quantified or sequenced.

Claim 3190. (New) The system of claim 3172, wherein said single-stranded nucleic acid is unlabeled.

Claim 3191. (New) The system of claim 3172 or 3173, wherein said non-porous solid support is transparent or translucent.

Claim 3192. (New) The system of claim 3173, wherein said non-radioactive chemical label is quantifiable in or from a fluid or solution, said quantity being proportional to the amount or quantity of said label or labels.

Claim 3193. (New) The system of claim 3173, wherein said non-porous solid support is transparent or translucent, and said non-radioactive chemical label is quantifiable in or from a fluid or solution or in or through said non-porous solid support, said quantity being proportional to the amount or quantity of said label or labels.

Claim 3194. (New) The system of claim 3173, wherein said non-radioactive chemical label comprises a chromagen or a chromagenic compound, a colored dye compound, a fluorogen or a fluorescent compound, a chemiluminescent compound, a chelating compound, an enzyme or an enzymatic compound, a coenzyme, biotin, iminobiotin, a hapten or a ligand.

Claim 3195. (New) The system of claim 3173, wherein a non-radioactive signal from said non-radioactive chemical label is quantifiable or detectable by photometric techniques, spectrophotometric techniques, colorimetric techniques, fluorometric techniques or chemiluminescent techniques.

Claim 3196. (New) The system of claim 3172, comprising more than one single-stranded nucleic acid.

Claim 3197. (New) The system of claim 3173, comprising more than one double-stranded nucleic acid.

Claim 3198. (New) An array comprising various single-stranded nucleic acids directly or indirectly fixed or immobilized in hybridizable form to a non-porous solid support, wherein when said nucleic acids are indirectly fixed or immobilized to said non-porous solid support, said indirect fixation or immobilization is not to a cell fixed *in situ* to said non-porous solid support.

Claim 3199. (New) An array comprising various double-stranded nucleic acids directly or indirectly fixed or immobilized to a non-porous solid support, wherein at least one nucleic acid strand of said various double-stranded nucleic acids comprises at least one non-radioactive chemical label which is quantifiable or detectable, and wherein when said nucleic acids are indirectly fixed or immobilized to said non-porous solid support, said indirect fixation or immobilization is not to a cell fixed *in situ* to said non-porous solid support.

Claim 3200. (New) The array of claim 3198 or 3199, wherein said non-porous solid support comprises glass or plastic.

Claim 3201. (New) The array of claim 3198 or 3199, wherein said non-porous solid support comprises a plate, a well or wells, a microtiter well or microtiter wells, depressions, tubes, cuvettes, beads, or a set of said plates, wells, depressions, tubes, cuvettes or beads.

Claim 3202. (New) The array of claim 3198 or 3199, wherein said non-porous solid support comprises more than one surface.

Claim 3203. (New) The array of claim 3198 or 3199, comprising reactive sites or binding sites thereon, wherein said nucleic acids are fixed or immobilized to said reactive sites or binding sites.

Claim 3204. (New) The array of claim 3203, wherein said reactive sites or binding sites comprise one or more amines, hydroxyls or epoxides.

Claim 3205. (New) The array of claim 3198 or 3199, wherein said non-porous solid support has been treated with a surface treatment agent, a blocking agent, or both.

Claim 3206. (New) The array of claim 3205, wherein said surface treatment agent comprises an amine providing compound, an epoxy glue or solution, an acid solution or ammonium acetate.

Claim 3207. (New) The array of claim 3205, wherein said blocking agent comprises Denhardt's solution.

Claim 3208. (New) The array of claim 3198 or 3199, wherein said direct or indirect fixation or immobilization to said non-porous solid support is covalent

Claim 3209. (New) The array of claim 3198 or 3199, wherein said direct or indirect fixation or immobilization to said non-porous solid support is non-covalent.

Claim 3210. (New) The array of claim 3198, wherein said single-stranded nucleic acids or sequences are indirectly fixed or immobilized to said non-porous solid support by sandwich hybridization or by hybridization to complementary nucleic acid strands.

Claim 3211. (New) The array of claim 3199, wherein one strand of said double-stranded nucleic acids or sequences is indirectly fixed or immobilized to said non-porous solid support by sandwich hybridization or by hybridization to complementary nucleic acid strands.

Claim 3212. (New) The array of claim 3198, wherein said nucleic acids comprise DNA or RNA.

Claim 3213. (New) The array of claim 3199, wherein said nucleic acids comprise DNA, RNA, or both.

Claim 3214. (New) The array of claim 3198, wherein said nucleic acids comprise nucleic acid sequences complementary to nucleic acid sequences of interest sought to be identified, quantified or sequenced.

Claim 3215. (New) The array of claim 3199, wherein one strand of said double-stranded nucleic acids comprises a nucleic acid sequence of interest sought to be identified, quantified or sequenced.

Claim 3216. (New) The array of claim 3198, wherein said single-stranded nucleic acids are unlabeled.

Claim 3217. (New) The array of claim 3198 or 3199, wherein said non-porous solid support is transparent or translucent.

Claim 3218. (New) The array of claim 3199, wherein said non-radioactive chemical label is quantifiable in or from a fluid or solution, said quantity being proportional to the amount or quantity of said label or labels.

Claim 3219. (New) The array of claim 3199, wherein said non-porous solid support is transparent or translucent, and said non-radioactive chemical label is quantifiable in or from a fluid or solution or in or through said non-porous solid support, said quantity being proportional to the amount or quantity of said label or labels.

Claim 3220. (New) The array of claim 3199, wherein said non-radioactive chemical label comprises a chromagen or a chromagenic compound, a colored dye compound, a fluorogen or a fluorescent compound, a chemiluminescent compound, a chelating compound, an enzyme or an enzymatic compound, a coenzyme, biotin, iminobiotin, a hapten or a ligand.

Claim 3221. (New) The array of claim 3199, wherein a non-radioactive signal from said non-radioactive chemical label is quantifiable or detectable by photometric techniques, spectrophotometric techniques, colorimetric techniques, fluorometric techniques or chemiluminescent techniques.

Claim 3222. (New) An array comprising various single-stranded nucleic acids directly or indirectly fixed or immobilized in hybridizable form to a non-porous solid support having wells or depressions, wherein when said nucleic acids are indirectly fixed or immobilized to said wells or depressions of said non-porous solid support, said indirect fixation or immobilization is not to a cell fixed *in situ* to said wells or depressions of said non-porous solid support.

Claim 3223. (New) An array comprising various double-stranded nucleic acids directly or indirectly fixed or immobilized to a non-porous solid support having wells or depressions, wherein at least one nucleic acid strand of said various double-stranded nucleic acids comprises at least one non-radioactive chemical label which is quantifiable or detectable, and wherein when said nucleic acids are indirectly fixed or immobilized to said wells or depressions of said non-porous solid support, said indirect fixation or immobilization is not to a cell fixed *in situ* to said wells or depressions of said non-porous solid support.

Claim 3224. (New) The array of claim 3222 or 3223, wherein said non-porous solid support comprises glass or plastic.

Claim 3225. (New) The array of claim 3222 or 3223, wherein said wells or depressions comprise a plate of wells or depressions, or a microtiter plate of wells or depressions.

Claim 3226. (New) The array of claim 3222 or 3223, comprising reactive sites or binding sites thereon, wherein said nucleic acids are fixed or immobilized to said reactive sites or binding sites.

Claim 3227. (New) The array of claim 3226, wherein said reactive sites or binding sites comprise one or more amines, hydroxyls or epoxides.

Claim 3228. (New) The array of claim 3222 or 3223, wherein said non-porous solid support has been treated with a surface treatment agent, a blocking agent, or both.

Claim 3229. (New) The array of claim 3228, wherein said surface treatment agent comprises an amine providing compound, an epoxy glue or solution, an acid solution or ammonium acetate.

Claim 3230. (New) The array of claim 3228, wherein said blocking agent comprises Denhardt's solution.

Claim 3231. (New) The array of claim 3222 or 3223, wherein said direct or indirect fixation or immobilization to said non-porous solid support is covalent.

Claim 3232. (New) The array of claim 3222 or 3223, wherein said direct or indirect fixation or immobilization to said non-porous solid support is non-covalent.

Claim 3233. (New) The array of claim 3222, wherein said single-stranded nucleic acids are indirectly fixed or immobilized to said non-porous solid support by sandwich hybridization or by hybridization to complementary nucleic acid strands.

Claim 3234. (New) The array of claim 3223, wherein one strand of said double-stranded nucleic acids is indirectly fixed or immobilized to said non-porous solid support by sandwich hybridization or by hybridization to complementary nucleic acid strands.

Claim 3235. (New) The array of claim 3222, wherein said nucleic acids comprise DNA or RNA.

Claim 3236. (New) The array of claim 3223, wherein said nucleic acids comprise DNA, RNA, or both.

Claim 3237. (New) The array of claim 3222, wherein said nucleic acids comprise nucleic acid sequences complementary to nucleic acid sequences of interest sought to be identified, quantified or sequenced.

Claim 3238. (New) The array of claim 3223, wherein one strand of said double-stranded nucleic acids comprises a nucleic acid sequence of interest sought to be identified, quantified or sequenced.

Claim 3239. (New) The array of claim 3223, wherein said nucleic acid sequence of interest sought to be identified, quantified or sequenced comprises a gene sequence or pathogen sequence.

Claim 3240. (New) The array of claim 3222, wherein said single-stranded nucleic acids are unlabeled.

Claim 3241. (New) The array of claim 3222 or 3223, wherein said non-porous solid support is transparent or translucent.

Claim 3242. (New) The array of claim 3223, wherein said non-radioactive chemical label is quantifiable in or from a fluid or solution, said quantity being proportional to the amount or quantity of said label or labels.

Claim 3243. (New) The array of claim 3223, wherein said non-porous solid support is transparent or translucent, and said non-radioactive chemical label is quantifiable in or from a fluid or solution or in or through said non-porous solid support, said quantity being proportional to the amount or quantity of said label or labels.

Claim 3244. (New) The array of claim 3223, wherein said non-radioactive chemical label comprises a chromagen or a chromagenic compound, a colored dye compound, a fluorogen or a fluorescent compound, a chemiluminescent compound, a chelating compound, an enzyme or an enzymatic compound, a coenzyme, biotin, iminobiotin, a hapten or a ligand.

Claim 3245. (New) The array of claim 3223, wherein a non-radioactive signal from said non-radioactive chemical label is quantifiable or detectable by photometric techniques, spectrophotometric techniques, colorimetric techniques, fluorometric techniques or chemiluminescent techniques.

Claim 3246. (New) A non-porous glass or plastic solid support comprising at least one single-stranded nucleic acid directly or indirectly fixed or immobilized thereto in hybridizable form, wherein when said single-stranded nucleic acid is indirectly fixed or immobilized to said non-porous glass or plastic solid support, said indirect fixation or immobilization is not to a cell fixed *in situ* to said non-porous glass or plastic solid support.

Claim 3247. (New) A non-porous glass or plastic solid support comprising at least one double-stranded nucleic acid directly or indirectly fixed or immobilized thereto, wherein at least one nucleic acid strand of said double-stranded nucleic acid comprises at least one non-radioactive chemical label which is quantifiable or detectable, and wherein when said double-stranded nucleic acid is indirectly fixed or immobilized to said non-porous glass or plastic solid support, said indirect fixation or immobilization is not to a cell fixed *in situ* to said non-porous glass or plastic solid support.

Claim 3248. (New) The non-porous glass or plastic solid support of claim 3246 or 3247, wherein said non-porous glass or plastic solid support comprises a plate, a well or wells, a microtiter well or microtiter wells, depressions, tubes, cuvettes, beads, or a set of said plates, wells, depressions, tubes, cuvettes or beads.

Claim 3249. (New) The non-porous glass or plastic solid support of claim 3246 or 3247, wherein said non-porous solid support comprises more than one surface.

Claim 3250. (New) The non-porous glass or plastic solid support of claim 3246 or 3247, comprising reactive sites or binding sites thereon, wherein said nucleic acid is fixed or immobilized to one of said reactive sites or binding sites.

Claim 3251. (New) The non-porous glass or plastic solid support of claim 3250, wherein said reactive sites or binding sites comprise one or more amines, hydroxyls or epoxides.

Claim 3252. (New) The non-porous glass or plastic solid support of claim 3246 or 3247, wherein said non-porous glass or plastic solid support has been treated with a surface treatment agent, a blocking agent, or both.

Claim 3253. (New) The non-porous glass or plastic solid support of claim 3252, wherein said surface treatment agent comprises an amine providing compound, an epoxy glue or solution, an acid solution or ammonium acetate.

Claim 3254. (New) The non-porous glass or plastic solid support of claim 3252, wherein said blocking agent comprises Denhardt's solution.

Claim 3255. (New) The non-porous glass or plastic solid support of claim 3246 or 3247, wherein said direct or indirect fixation or immobilization to said non-porous solid support is covalent

Claim 3256. (New) The non-porous glass or plastic solid support of claim 3246 or 3247, wherein said direct or indirect fixation or immobilization to said non-porous solid support is non-covalent.

Claim 3257. (New) The non-porous glass or plastic solid support of claim 3246, wherein said single-stranded nucleic acid is indirectly fixed or immobilized to said non-porous glass or plastic solid support by sandwich hybridization or by hybridization to a complementary nucleic acid strand.

Claim 3258. (New) The non-porous glass or plastic solid support of claim 3247, wherein one strand of said double-stranded nucleic acid is indirectly fixed or immobilized to said non-porous glass or plastic solid support by sandwich hybridization or by hybridization to a complementary nucleic acid strand.

Claim 3259. (New) The non-porous glass or plastic solid support of claim 3246, wherein said nucleic acid or sequence comprises DNA or RNA.

Claim 3260. (New) The non-porous glass or plastic solid support of claim 3247, wherein said nucleic acid or sequence comprises DNA, RNA, or both.

Claim 3261. (New) The non-porous glass or plastic solid support of claim 3246, wherein said nucleic acid comprises a nucleic acid sequence complementary to a nucleic acid sequence of interest sought to be identified, quantified or sequenced.

Claim 3262. (New) The non-porous glass or plastic solid support of claim 3247, wherein one strand of said double-stranded nucleic acid comprises a nucleic acid sequence of interest sought to be identified, quantified or sequenced.

Claim 3263. (New) The non-porous glass or plastic solid support of claim 3246, wherein said single-stranded nucleic acid is unlabeled.

Claim 3264. (New) The non-porous glass or plastic solid support of claim 3246 or 3247, wherein said non-porous glass or plastic solid support is transparent or translucent.

Claim 3265. (New) The non-porous glass or plastic solid support of claim 3247, wherein said non-radioactive chemical label is quantifiable in or from a fluid or solution, said quantity being proportional to the amount or quantity of said label or labels.

Claim 3266. (New) The non-porous glass or plastic solid support of claim 3247, wherein said non-porous glass or plastic solid support is transparent or translucent, and non-radioactive chemical label is quantifiable in or from a fluid or solution or in or through said non-porous glass or plastic solid support, said quantity being proportional to the amount or quantity of said label or labels.

Claim 3267. (New) The non-porous glass or plastic solid support of claim 3246, comprising more than one single-stranded nucleic acids directly or indirectly fixed or immobilized in hybridizable form to said non-porous glass or plastic solid support.

Claim 3268. (New) The non-porous glass or plastic solid support of claim 3247, comprising more than one double-stranded nucleic acids directly or indirectly fixed or immobilized in hybridizable form to said non-porous glass or plastic solid support.

Claim 3269. (New) A set comprising the non-porous glass or plastic solid supports of claim 3246.

Claim 3270. (New) A set comprising the non-porous glass or plastic solid supports of claim 3247.

Claim 3271. (New) A non-porous solid support comprising single-stranded nucleic acid directly or indirectly fixed or immobilized thereto in hybridizable form, wherein when said nucleic acid is indirectly fixed or immobilized to said non-porous solid support, said indirect fixation or immobilization is not to a cell fixed *in situ* to said non-porous solid support.

Claim 3272. (New) A non-porous solid support comprising a single-stranded nucleic acid directly or indirectly fixed or immobilized thereto in hybridizable form, wherein when said nucleic acid is indirectly fixed or immobilized to said non-porous solid support, said indirect fixation or immobilization is not to a cell fixed *in situ* to said non-porous solid support.

Claim 3273. (New) A non-porous solid support comprising nucleic acid directly or indirectly fixed or immobilized thereto in hybridizable form, wherein when said nucleic acid is indirectly fixed or immobilized to said non-porous solid support, said indirect fixation or immobilization is not to a cell fixed *in situ* to said non-porous solid support.

Claim 3274. (New) A non-porous solid support comprising DNA or RNA directly or indirectly fixed or immobilized thereto in hybridizable form, wherein when said DNA or RNA is indirectly fixed or immobilized to said non-porous solid support, said indirect fixation or immobilization is not to a cell fixed *in situ* to said non-porous solid support.

Claim 3275. (New) A non-porous solid support comprising double-stranded nucleic acid fixed or immobilized thereto, wherein at least one nucleic acid strand of said double-stranded nucleic acid comprises at least one non-radioactive chemical label which is quantifiable or detectable, wherein when said nucleic acid is indirectly fixed or immobilized to said non-porous solid support, said indirect fixation or immobilization is not to a cell fixed *in situ* to said non-porous solid support.

Claim 3276. (New) A non-porous solid support comprising a double-stranded nucleic acid fixed or immobilized thereto, wherein at least one nucleic acid strand of said double-stranded nucleic acid comprises at least one non-radioactive chemical label which is quantifiable or detectable, wherein when said nucleic acid is indirectly fixed or immobilized to said non-porous solid support, said indirect fixation or immobilization is not to a cell fixed *in situ* to said non-porous solid support.

Claim 3277. (New) The non-porous solid support of claim 3271, 3272, 3273, 3274, 3275, or 3276, wherein said non-porous solid support comprises glass or plastic.

Claim 3278. (New) The non-porous solid support of claim 3271, 3272, 3273, 3274, 3275, or 3276, wherein said non-porous solid support comprises more than one surface.

Claim 3279. (New) A system comprising a non-porous solid support and DNA or RNA directly or indirectly fixed or immobilized thereto in hybridizable form, wherein when said DNA or RNA is indirectly fixed or immobilized to said non-porous solid support, said indirect fixation or immobilization is not to a cell fixed *in situ* to said non-porous solid support.

Claim 3280. (New) A system comprising a non-porous solid support and nucleic acid directly or indirectly fixed or immobilized thereto in hybridizable form, wherein when said nucleic acid is indirectly fixed or immobilized to said non-porous solid support, said indirect fixation or immobilization is not to a cell fixed *in situ* to said non-porous solid support.

Claim 3281. (New) A system comprising a non-porous solid support and double-stranded nucleic acid fixed or immobilized thereto, wherein at least one nucleic acid strand of said double-stranded nucleic acid comprises at least one non-radioactive chemical label which is quantifiable or detectable, and wherein when said nucleic acid is indirectly fixed or immobilized to said non-porous solid support, said indirect fixation or immobilization is not to a cell fixed *in situ* to said non-porous solid support.

Claim 3282. (New) A system comprising a non-porous solid support and a double-stranded nucleic acid fixed or immobilized thereto, wherein at least one nucleic acid strand of said double-stranded nucleic acid comprises at least one non-radioactive chemical label which is quantifiable or detectable, and wherein when said nucleic acid is indirectly fixed or immobilized to said non-porous solid support, said indirect fixation or immobilization is not to a cell fixed *in situ* to said non-porous solid support.

Claim 3283. (New) The system of claim 3279, 3280, 3281 or 3282, wherein said non-porous solid support comprises glass or plastic.

Claim 3284. (New) A non-porous solid support comprising nucleic acid directly fixed or immobilized thereto in hybridizable form.

Claim 3285. (New) A non-porous solid support comprising a nucleic acid directly fixed or immobilized thereto in hybridizable form.

Claim 3286. (New) A non-porous solid support comprising DNA or RNA directly fixed or immobilized thereto in hybridizable form.

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